

FIGURE 1

SEQ ID NO: 1

Xaa₁-Xaa₂-Xaa₃Cys₄-Xaa₅-Xaa₆-Xaa₇-Cys₈-Xaa₉-Xaa₁₀-Gly₁₁-Xaa₁₂-Cys₁₃-Xaa₁₄-Xaa₁₅-Xaa₁₆-Cys₁₇-Xaa₁₈-Xaa₁₉-R

SEQ ID NO: 2

Arg-Arg Trp-Cys-Tyr-Arg-Lys-Cys-Tyr-Lys-Gly-Tyr-Cys-Tyr-Arg-Lys-Cys-Arg

SEQ ID NO: 3

Lys-Trp-Ala-Phe-Arg-Val-Ala-Tyr-Arg-Gly-Ile-Ala-Tyr-Arg-Arg-Ala-Arg

SEQ ID NO: 4 (GenBank Accession No. AAH20057.1)

MNLQP1FWIGLISSVCCVFAQTDENRCLKANAKSCGECIQAGPN
CGWCTNSTFLQEGMPTSARCDDLEALKKGCPDPDIENPRGSKDIKKKNVNTNRSKGT
AEKLPEDITQIQPQQQLVRLRSGEQFTLKFRAEDYPIDLYYLMDLSYSMKDDLE
NVKSLGTDLMNEMRRITSDFRIGFGSFVEKTVMPYISTTPAKLRNPCTSEQNCTSPFS
YKNVLSLTNKGEVFNLVGKQRISGNLDSPEGGFDAIMQVAVCGSLIGWRNVTRLLVF
STDAGFHAGDGKLGIVLPNDGQCHLENNMYTMSHYYDYPSSIAHLVQKLSENNIQT
FAVTEEFQPVYKELKNLIPKSAVGTLSANSSNVIQLIIDAYNSLSSEVILENGKLSEG
VTISYKSYCKNGVNGTGENGKCSNISIGDEVQFEISITSNKCPKKDSDFKIRPLGF
TEEEVEILQYICECECQSEGIPESPKCHEGNGTFECGACRCNEGRVGRHCECSTDEVN
SEDMDAYCRKENSSEICSNNGEVCQCVCRKDNTNEIYSGKFCECDNFNCDRSNGL
ICGGNGVCKCRVCECNPYNTGSACDCSLDTSTCEASNGQICNGRGICECGVCKCTDPK
FQGQTCEMCQTCLGVCAEHKECVQCRAFNKGEEKKDTCTQECSYFNITKVESRDKLPQP
VQPDPVSHCKEVDVDCWFYFTYSVNGNNEVMVHVENPECPTGPDIIPIVAGVVAGI
VLIGLALLLIWKLMIIHDRREFAKFEKEKMNKAWDTGENPIYKSAVTVVNPKYEGK

SEQ ID NO: 5 (GenBank Accession No. BC020057)

1 agcggagtc gcggAACAGC aggcccggc ccaccgcgc gggccccggc cgccgcgcgg
61 aaaagatgaa ttatacacc aattttctggg ttggactgtat cagttcagtt tgctgtgtgt
121 ttgctcaaac agatggaaat agatgtttaa aagcaaatgc caaatcatgt ggagaatgt
181 tacaagcagg gccaaattgt ggggtgggtgca caaattcaac atttttacag gaaggaatgc
241 ctacttctgc acgatgtat gatttagaag cttaaaaaaa gaagggttgc cttccagatg
301 acatagaaaaa tcccgaggc tccaaagata taaagaaaaa taaaaatgtt accaaccgt
361 gcaaggAAC agcagagaag ctcaagccag aggatattac tcagatccaa ccacagcagt
421 tggtttgcg attaagatca ggggagccac agacatttac attaaaattc aagagagctg
481 aagactatcc cattgaccc tcattaccc tggacctgtc ttactcaatg aaagacgatt
541 tggagaatgt aaaaagtctt ggaacagatc tggatgtat aatgaggagg attacttcgg
601 acttcagaat tggatttggc tcattttgtgg aaaaagactgt gatgccttac attagcacaa
661 caccagctaa gctcaggAAC ccttgcacaa gtgaacagaa ctgcaccaggccatccatgt
721 acaaaaatgt gctcagtctt actaataaaag gagaagtatt taatgaactt gttggaaaac
781 agcgcatacc tggaaatttgc gattctccag aagggtggttt cgatgccttc atgcaagtt
841 cagtttgcg atcactgtt ggtggaggatgttacacg gctgctgttgg tttccacag
901 atgccgggtt tcactttgc gggatggga aacttgggtt cattgttttcaaaatgt
961 gacaatgtca cctggaaaaat aatatgtaca caatgagccat tattatgtat tattccctca
1021 ttgctcaccc tggatgtggaa ataatattca gacaattttgcagttactg
1081 aagaatttca gcctgtttac aaggagctga aaaaacttgcat ccctaagtca gcagtaggaa
1141 cattatctgc aaatttctgc aatgtatcc agttgatcat tgatgcatac aattccctt
1201 cttcagaatgtt gatgtggaa aacggcaat tggatgttgg agtaacaata agtttacaaat
1261 cttactgc aacgggggtt aatggaaacag gggaaaatgg aagaaaatgt tccaaatattt
1321 ccattggaga tgagggttcaat tttggaaatatttgcataacttca aaataagtgc ccaaaaaagg
1381 attctgacag cttaaaaatttggcctctgg gctttacggc ggaagttagag gttatttttc

FIGURE 1 (continued)

1441 agtacatctg tgaatgtcaa tgccaaagcg aaggcatccc tgaaaagtccc aagtgtcatg
1501 aaggaaatgg gacatttgag tgtggcgcgt gcaggtgcaa tgaagggcgt gttggtagac
1561 attgtgaatg cagcacagat gaagttaaca gtgaagacat ggatgcctac tgcagggaaag
1621 aaaacagttc agaaatctgc agtaacaatg gagagtgcgt ctgcggacag tgggtttgt
1681 ggaagggaa taatacaaattt gaaatttattt ctgcaaaattt ctgcgagtgt gataatttca
1741 actgtgatag atccaatggc ttaatttggg gaggaaatgg tgggttgcgt tgctgtgt
1801 gtgagtgcaa ccccaactac actggcagtgc catgtgactg ttctttggat actagtactt
1861 gtgaagccag caacggacag atctgcaatg gcccggcat ctgtgagtgt ggtgtctgt
1921 agtgtacaga tccgaagttt caaggggcaaa cgtgtgagat gtgtcagacc tgccttgggt
1981 tctgtgctga gcataaaagaa tgggttcgt gcaagccctt caataaagga gaaaagaaaag
2041 acacatgcac acaggaatgt tccttattttt acattaccaa ggtagaaagt cgggacaaat
2101 taccggcagcc ggtccaaacctt gatcctgtgt cccattgtaa ggagaaggat gttgacgact
2161 gttggttcta ttttacgtat tcagtgaatg ggaacaacga ggtcatgggtt catgttgg
2221 agaatccaga gtgtcccact ggtccagacata tcattccaaat tggatgtgtt gttgggtctg
2281 gaattgttctt tattggcctt gcatactgc tgatatggaa gcttttaatg ataattcatg
2341 acagaagggaa gtttgcataa tttgaaaagg agaaaatgaa tgccaaatgg gacacgggt
2401 aaaatccat ttataagagt gccgtaacaa ctgtggtcaa tccgaatgtt gaggggaaat
2461 gagtactgcc cgtccaaatc ccacaacact gaatgcaaaag tagcaatttc catagtcc
2521 gtttaggtac ttttagggca tattggcatg gtttactca tggcaggtt ttgaaaatgt
2581 acaatatgtta taatttttaa aatgttttat tattttgaaa ataattgtt aattcatgcc
2641 aggactgac aaaagacttg agacaggatg gtttattcttgc tcagctaagg tcacattgt
2701 cttttttgac cttttttcc tggactattt aaatcaagct tattggatta agtgcattt
2761 ctatagcgat tgaaaggca atagttaaag taatgagcat gatgaggtt tctgttaatc
2821 atgtatttttactgattttt agctttacaa atatgtcagt ttgcagttat gcagaatcca
2881 aagtaaatgtt cctgttagct agttaaggat tggatgtttaat ctgttattttt gctatttgcc
2941 tggtagacat gactgtgac atatctgaaa gacaagtatg ttgagagttt ctgggttaaa
3001 atacgttgcata aatagttgat ctacaaaggc catggggaaa attcagagag ttaggaagga
3061 aaaaccaata gctttaaaac ctgtgtgcca tttttaagatg tacttaatgt ttggtaactt
3121 ttatgccttc actttacaaa ttcaaggccctt agataaaaga accgagcaat tttctgctaa
3181 aaagtccctt attttagcact atttacatac agggcatact ttacaaagta tttgctgaat
3241 ggggaccttt tgagttgaat ttattttattt atttttattt tggtaatgt ctgggtctt
3301 ctatcacccctt ttctaatctt ttaatgtatt tggatgtttaat ttggggtaa gactttttt
3361 atgagttactt tttctttgaa gtttttagcgg tcaatttgcc ttttaatga acatgtgaag
3421 ttatactgtg gctatgcaac agctctcacc tacggcagtc ttactttgag ttagtgccat
3481 aacagaccac tggatgttta cttctcacca ttttagtttgc ccatctgtt tcacactgt
3541 cacattcttg ttttaagtgc cttagttt aacagttcac tttttacagt gctatttact
3601 gaagtttattt attaaatatg cttttttttt taaaatcgaa aaaaaaaaaaaaaaaa

SEQ ID NO: 6 (GenBank Accession No. NP_000600)

1 mnakvvvvlv lvltalclsd gkpvs1syrc pcrffeshva ranvkhk1il ntpncalqiv
61 arlknnnnrqv cidpk1kwiq eylekalnkr fkm

SEQ ID NO: 7 (GenBank Accession No. NM_000609)

1 tctccgtcag ccgcattgcc cgctggcgt ccggcccccg acccggtcgtc gtccgcccgc
61 ccgcggcccc gccccggcca tgaacgcca ggtcggtc gtgctgggtcc tcgtgtgt
121 cgcgtctgc ctcagcgcacg ggaagcccgt cagccgtacg tacagatgcc catggcatt
181 cttcgaaagc catgttgcca gagccaacgt caagcatctc aaaattctca acactccaaa
241 ctgtggccctt cagattgttag cccggctgaa gaacaacaac agacaagtgtt gcattgaccc
301 gaagctaaag tggattcagg agtacctgga gaaagcttta aacaagaggt tcaagatgt
361 agagggtcag acgcctgagg aacccttaca gtaggagccc agctctgaaa ccagtgttag
421 ggaaggccctt gccacagccct cccctggccag ggcaggccc caggcattgc caaggccctt
481 gttttgcaca ctttgcata ttttccat ttttgcata ttttgcata ttttgcata ttttgcata
541 tttttcattt agtttgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata
601 cattattgtt cttgcctttagtgc ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata
661 tcctgggttt ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata ttttgcata

FIGURE 1 (continued)

SEQ ID NO: 8 (GenBank Accession No. AAH55419.1)

MAWEARREPGRRAAVRETVMLLCLGVPTGRPYNVDTESALLY
QGPHTLFGYSVVLHSHGANRLLVGAPTANWLANASVINPGAIYRCRIGKNPGQTCE
QLQLGSPNGEPCGKTCLEERDNQWLGVTLSRQPGENSIVTCGHRWKNIFYIKNENKL
PTGGCYGVPPDLRTELSKRIAPCYQGSISKYRART

SEQ ID NO: 9 (GenBank Accession No. BC055419)

1 gggggctctt gctgagccca gagccatccc gcgcctctgcg ggctgggagg cccggggccag

FIGURE 1 (continued)

61 gacgcgagtc ctgcgcagcc gaggttcccc agcgccccat gcagccgcgc gtagggcagag
121 acggagcccg gcccgcgc tccgcaccac gccccggacc ccacccagcg gcccgtaccc
181 ggagaagcag cgcgagcacc cgaagctccc ggctggcgcc agaaacccggg agtggggccg
241 ggcgagtgcg cggcatccca ggccggcccg aacgctccgc cgccgggtggg ccgacttccc
301 ctcccttccc ctctcttccc ccttagccc gctggcgccg gacacgtcgc gcctcatctc
361 ttggggcggtt ctcccccggt ggccaaccgt cgcatcccggt gcaactttgg ggtagtgccc
421 gtttagtgtt gaatgttccc caccgagagc gcatggctt ggaagcgagg cgccaaaccccg
481 gccccccaag ggccgcgcgc cgggagacgg tgatgtgtt gctgtgcctg ggggtcccga
541 ccggccgccc ctacaacgtg gacactgaga ggcgcgtgtt ttaccaggcc cccacacaaca
601 cgctgttcgg ctactcggtc gtgtgcaca gccacggggc gaaccgttgg ctccctagtgg
661 gtgcgcacac tgccaactgg ctcgccaacg cttagtgtat caatcccggg gcgatttaca
721 gatgcaggat cggaaagaat cccggccaga cgtgcgaaca gctccagctg ggtagcccta
781 atggagaacc ttgtggaaag acttgtttgg aagagagaga caatcagtgg ttgggggtca
841 cacttccag acagccagga gaaaatggat ccatcgtgac ttgtggccat agatggaaaa
901 atatattta cataaaagaat gaaaataagc tccccactgg tgggtgcata ggagtgcccc
961 ctgatttacg aacagaactg agtaaaagaa tagctccgtt ttatcaaggt agcatcagca
1021 agtacagagc taggacataa cagaagttag cagaatttggg gtgaatgtca acagagcatg
1081 tcagaggata tctgcagcaa aactaaaatc caacaatgcg tcttttaggag ctaagaaaca
1141 tatgaatgca aattcataat tttcttaacca ccctcaactct caaaaaaaaaa tccctcagca
1201 cgc当地 aatatttattt gttggccaaa ctttggccaa gtatttgat tcaattatgg
1261 gtgctaataa gactttggtc tttcttccctt ggaatgtgtat gtcacagagc agcttatatt
1321 acatataattc ctatttgcc ttcggatacc caaaaagataa aaaagtgaat attgattctc
1381 agttgcaata aaactcagtc ttgatttctg caaaaaaaaaa aaaaaaaaaa

SEQ ID NO: 10 (GenBank Accession No. AAH20968.1)

MEGISIYTSNDYTEEMGSGDYDSMKEPCFREENANFNKIFLPTI
YSIIIFLTGIVGNGLVILVMGYQKLRSMTDKYRLHLSVADLLFVITLPFWAVDAVANW
YFGNFLCKAVHVIYTVNLYSSVLILAFISLDRLAIVHATNSQRPRKLLAEKVVYVG
WIPALLLTIPDFIFANVSEADDRYICDRFPNDLWVVVFQFQHIMVGLILPGIVILSC
YCIIISKLSHSKGHQKRALKTTVILILAFFACWLPYYIGISIDSFILEIIKGCEF
ENTVHKWISITEALAFFHCCLNPILYAFLGAKFKTSQAHLTSVRGSSLKILSKGKR
GGHSSVSTESESSSFHSS

SEQ ID NO: 11 (GenBank Accession No. BC020968)

1 ccgagggcct gagtgctcca gtagccaccg catctggaga accagcggtt accatggagg
61 ggatcgtat atacacttca gataactaca ccgaggaaat gggctcaggg gactatgact
121 ccatgaagga accctgttcc cgtaagaaa atgctaattt caataaaatc ttccctgccc
181 ccatctactc catcatttc ttaactggca ttgtggccaa tggattgttc atcctggc
241 tgggttacca gaagaaactg agaagcatga cggacaagta caggctgcac ctgtcagtgg
301 ccgacctcct ctttgtcattc acgcttccct tctggcagt tgatgccgt gcaaactgg
361 actttggaa cttcctatgc aaggcgttcc atgtcatcta cacagtcaac ctctacagca
421 gtgtcctcat cctggccttc atcagtctgg accgctaccc ggccatcgtc cacgcccacca
481 acagtccagag gccaaggaaat ctgttggctt aaaaagggtt ctatgttggc gtctggatcc
541 ctgcctcct gctgacttattt cccgacttca tcttgcctt cgtcagtggag gcagatgaca
601 gatatatctg tgaccgttc taccctaatg acttgggtt ggttgtttc cagtttcagc
661 acatcatgtt tggccttattc ctgcctggta ttgtcatctt gtctgtctat tgcattatca
721 tctccaagct gtcacactcc aaggccacc agaagcgaa ggccctcaag accacagtca
781 tcctcatcct ggcttcttc gctgttggc tgccttacta cattggatc agcatcgact
841 ccttcatttc cctggaaatc atcaagcaag ggtgtgagtt tgagaacact gtgcacaagt
901 ggattccat caccgaggcc ctagcttct tccactgtt gtcgaacccc atcctctatg
961 ctttccttgg agccaaattt aaaaacctctg cccagcacgc actcacctt gtgagcagag
1021 ggtccagcct caagatcctc tccaaaggaa agcgagggtgg acattcatct gttccactg
1081 agtctgagtc ttcaagtttt cactccagct aacacagatg taaaagactt ttttttata
1141 gataaaataac tttttttaa gttacacatt tttcagatattt aaaaagactga ccaatattgt
1201 acagttttta ttgctgttg gatttttgtc ttgtgtttt ttagttttt gtaagttaa
1261 ttgacttattt tatataaaattt ttttttggatc catattgtat tttttttt caggacactgt

FIGURE 1 (continued)

1321 ggccaagttc ttagttgctg tatgtctcggttaggactg tagaaaaaggaaactgaacat
1381 tccagagcgt gtagtgaatc acgtaaagct agaaatgatcccagctgtttatgcata
1441 taatctctcc attcccggtgg aacgttttc ctgttcttaa gacgtgatttgctgttagaa
1501 gatggcactt ataaccaaag cccaaagtgg tatagaaatg ctggttttc agtttcagg
1561 agtgggttga tttcagcacc tacagtgtac agtcttgat taagttgtta ataaaagtac
1621 atgttaaact taaaaaaaaaaaaaaa aaaaaaaaaaa aa